

Title (en)
METHODS, SYSTEMS, AND MEDIA FOR SEAMLESS AUDIO MELDING

Title (de)
VERFAHREN, SYSTEME UND MEDIEN ZUM NAHTLOSEN AUDIO-MELDING

Title (fr)
PROCÉDÉS, SYSTÈMES ET SUPPORTS POUR FUSION AUDIO HOMOGÈNE

Publication
EP 4038610 A1 20220810 (EN)

Application
EP 19824155 A 20191202

Priority
US 2019063950 W 20191202

Abstract (en)
[origin: US2021166731A1] In accordance with some embodiments of the disclosed subject matter, mechanisms for seamless audio melding between audio items in a playlist are provided. In some embodiments, a method for transitioning between audio items in playlists is provided, comprising: identifying a sequence of audio items in a playlist of audio items, wherein the sequence of audio items includes a first audio item and a second audio item that is to be played subsequent to the first audio item; and modifying an end portion of the first audio item and a beginning portion of the second audio item, where the end portion of the first audio item and the beginning portion of the second audio item are to be played concurrently to transition between the first audio item and the second audio item, wherein the end portion of the first audio item and the beginning portion of the second audio item have an overlap duration, and wherein modifying the end portion of the first audio item and the beginning portion of the second audio item comprises: generating a first spectrogram corresponding to the end portion of the first audio item and a second spectrogram corresponding to the beginning portion of the second audio item; identifying, for each frequency band in a series of frequency bands, a window over which the first spectrogram within the end portion of the first audio item and the second spectrogram within the beginning portion of the second audio item have a particular cross-correlation; modifying, for each frequency band in the series of frequency bands, the end portion of the first spectrogram and the beginning portion of the second spectrogram such that amplitudes of frequencies within the frequency band decrease within the first spectrogram over the end portion of the first spectrogram and that amplitudes of frequencies within the frequency band increase within the second spectrogram over the beginning portion of the second spectrogram; and generating a modified version of the first audio item the includes the modified end portion of the first audio item based on the modified end portion of the first spectrogram and generating a modified version of the second audio item that includes the modified beginning portion of the second audio item based on the modified beginning portion of the second spectrogram.

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US 11195553 B2 20211207; **US 2021166731 A1 20210603**; CN 114746938 A 20220712; EP 4038610 A1 20220810; JP 2022550218 A 20221130; JP 2023153801 A 20231018; JP 7314414 B2 20230725; KR 102653938 B1 20240403; KR 20220110796 A 20220809; KR 20240046635 A 20240409; US 11670338 B2 20230606; US 2022093130 A1 20220324; US 2023307003 A1 20230928; WO 2021112813 A1 20210610

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